

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004658

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ B29C33/30, 45/14, 45/26										
According to International Patent Classification (IPC) or to both national classification and IPC										
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ B29C33/30-33/32, 45/14, 45/26-45/37										
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Jitsuyo Shinan Koho</td> <td style="width: 15%;">1926-1996</td> <td style="width: 33%;">Toroku Jitsuyo Shinan Koho</td> <td style="width: 19%;">1994-2004</td> </tr> <tr> <td>Kokai Jitsuyo Shinan Koho</td> <td>1971-2004</td> <td>Jitsuyo Shinan Toroku Koho</td> <td>1996-2004</td> </tr> </table>			Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2004	Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004
Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2004							
Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)										
C. DOCUMENTS CONSIDERED TO BE RELEVANT										
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.								
A	JP 2-187245 ^v A (Sankyo Engineering Kabushiki Kaisha), 23 July, 1990 (23.07.90), Claim 1; Fig. 1 (Family: none)	1-13								
A	JP 10-278047 A ^v (Murata Mfg. Co., Ltd.), 20 October, 1998 (20.10.98), Claim 1; Figs. 3, 4 (Family: none)	1-13								
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.										
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td style="width: 50%; vertical-align: top;"> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family </td> </tr> </table>			* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family						
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family									
Date of the actual completion of the international search 06 July, 2004 (06.07.04)		Date of mailing of the international search report 20 July, 2004 (20.07.04)								
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer								
Facsimile No.		Telephone No.								

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category**	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 36743/1992 (Laid-open No. 86437/1993). (Aisei Seiki Kabushiki Kaisha), 22 November, 1993 (22.11.93), Par. No. [0007]; Fig. 1 (Family: none)	1-13

A. 発明の属する分野の分類 (国際特許分類 (IPC))

Int. Cl. B 29 C 33 / 30, 45 / 14, 45 / 26

B. 調査を行った分野

調査を行った最小限資料 (国際特許分類 (IPC))

Int. Cl. B 29 C 33 / 30 - 33 / 32, 45 / 14, 45 / 26 - 45 / 37

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報 1926-1996年

日本国公開実用新案公報 1971-2004年

日本国登録実用新案公報 1994-2004年

日本国実用新案登録公報 1996-2004年

国際調査で使用した電子データベース (データベースの名称、調査に使用した用語)

C. 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
A	J P 2 - 1 8 7 2 4 5 ・ A (三協エンジニアリング株式会社) 1 9 9 0 . 0 7 . 2 3 , 請求項 1 , 図 1 (ファミリーなし)	1 - 1 3
A	J P 1 0 - 2 7 8 0 4 7 ・ A (株式会社村田製作所) 1 9 9 8 . 1 0 . 2 0 , 請求項 1 , 図 3 , 4 (ファミリーなし)	1 - 1 3
A	日本国実用新案登録出願 4 - 3 6 7 4 3 号 (日本国実用新案登録出 願公開 5 - 8 6 4 3 7 号) の願書に添付した明細書及び図面の内容 を記録した CD - ROM (相生精機株式会社) 1 9 9 3 . 1 1 . 2 2 , 【 0 0 0 7 】 , 図 1 (ファミリーなし)	1 - 1 3

☐ C欄の続きにも文献が列举されている。☐ パテントファミリーに関する別紙を参照。

* 引用文献のカテゴリー

「A」 特に関連のある文献ではなく、一般的技術水準を示すもの

「E」 国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの

「L」 優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献 (理由を付す)

「O」 口頭による開示、使用、展示等に言及する文献

「P」 国際出願日前で、かつ優先権の主張の基礎となる出願

の日の後に公表された文献

「T」 国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの

「X」 特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの

「Y」 特に関連のある文献であって、当該文献と他の 1 以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの

「&」 同一パテントファミリー文献

国際調査を完了した日

06. 07. 2004

国際調査報告の発送日

20. 7. 2004

国際調査機関の名称及びあて先

日本国特許庁 (ISA/J P)

郵便番号 100-8915

東京都千代田区霞が関三丁目 4 番 3 号

特許庁審査官 (権限のある職員)

岩田 行剛

4 F

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電話番号 03-3581-1101 内線 3430

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